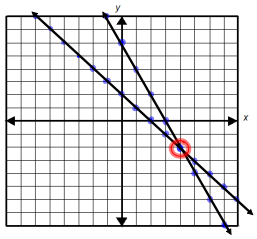
1) $\begin{cases} 2x + y = 6 \\ x + y = 2 \end{cases}$ $\Rightarrow y = -2x + 6$ $\Rightarrow y = -x + 2$



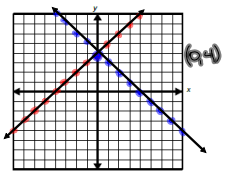
$(4, -2)$

2) $y = x + 4$

$y + x = 4$

$-x \quad -x$

$y = -x + 4$



$(0, 4)$

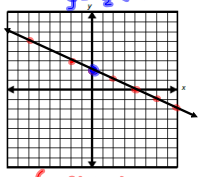
3) $\frac{1}{2}x + y = 2 \rightarrow y = \frac{1}{2}x + 2$

$2y + x = 4$

$-x \quad -x$

$\frac{2}{2}y = -\frac{1}{2}x + \frac{4}{2}$

$y = -\frac{1}{2}x + 2$



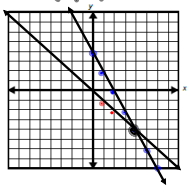
Consistent Dependent

3) $x + y = 0 \quad y = x$

$y + 2x = -4$

$y = -2x - 4$

$(-4, 4)$

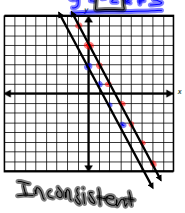


4) $2x + y = 5 \quad y = -2x + 5$

$4x + 2y = 6$

$\frac{-4x \quad -4x}{2} \quad \frac{+6}{2}$

$y = -2x + 3$



Inconsistent

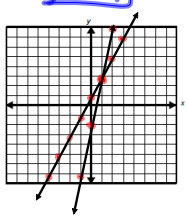
5) $5x - y = 2 \quad -y = -5x + 2 \quad y = 5x - 2$

$2x - y = 1$

$-y = -2x - 1$

$y = 2x + 1$

$(1, 3)$



6) $6x + 4y = 12 \quad y = -\frac{3}{2}x + 3$

$3x - y = -3 \quad y = 3x + 3$

$(0, 3)$